

## EAST Search History

| Ref # | Hits   | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|---|------------------|---------|------------------|
| S1    | 5      | ("6064737" or "5822436").pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/28 16:14 |
| S2    | 0      | pct/us94/13366.pct.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/26 12:36 |
| S3    | 0      | wo94/13366.ptpn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/26 12:36 |
| S4    | 9754   | 713/150,168-171,176-181.ccls. or<br>380/247-250,255,270,38.ccls. or<br>726/1-7.ccls.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/01 14:42 |
| S5    | 2133   | S4 and @ad<"19981013"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/28 16:16 |
| S6    | 152793 | (cell\$4 or wireless) adj (telephone<br>or phone)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/28 16:17 |
| S7    | 648    | S6 and (steganograph\$7 or<br>watermark\$3) with (stream or<br>auxiliary or data or signal or voice) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/28 16:33 |
| S8    | 12     | S7 and @ad<"19981013"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/28 16:33 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S9  | 7875 | (steganograph\$7 or watermark\$3) with (stream or auxiliary or data or signal or voice) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/28 16:33 |
| S10 | 816  | S9 and @ad<"19981013"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/28 16:38 |
| S11 | 1    | S10 and ((additive\$ or adding) with (overlay))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/28 16:34 |
| S12 | 78   | S10 and S5  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/28 17:09 |
| S14 | 3    | "5862260".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/28 17:10 |
| S15 | 2    | "5940135".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/28 17:12 |
| S16 | 2    | "5945932".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/28 17:13 |
| S17 | 3    | "3406344".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 09:19 |

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|     |   |               |   |    |    |                  |
|-----|---|---------------|---|----|----|------------------|
| S18 | 3 | "3586781".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 09:32 |
| S19 | 3 | "4225967".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 09:41 |
| S20 | 4 | "4237484".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 09:44 |
| S21 | 3 | "4425661".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 09:45 |
| S22 | 2 | "4876617".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:01 |
| S23 | 2 | "4931871".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:14 |
| S24 | 2 | "4943973".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:18 |
| S25 | 2 | "4972471".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:18 |

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|     |   |               |   |    |    |                  |
|-----|---|---------------|---|----|----|------------------|
| S26 | 2 | "4979210".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:22 |
| S27 | 2 | "5010405".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:25 |
| S28 | 2 | "5113437".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:26 |
| S29 | 2 | "5161210".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:32 |
| S30 | 2 | "5200822".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:37 |
| S31 | 2 | "5319735".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 10:59 |
| S32 | 2 | "5327237".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 11:11 |
| S33 | 2 | "5387941".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 11:28 |

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|     |   |               |   |    |    |                  |
|-----|---|---------------|---|----|----|------------------|
| S34 | 2 | "5404377".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 11:29 |
| S35 | 2 | "5473631".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 11:42 |
| S36 | 2 | "5559559".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 12:17 |
| S37 | 2 | "5579124".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 12:39 |
| S38 | 2 | "5646997".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 12:43 |
| S39 | 2 | "5659726".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 12:45 |
| S40 | 2 | "5687191".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 12:49 |
| S41 | 2 | "5712920".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 12:50 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S42 | 2     | "5822360".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 13:03 |
| S43 | 2     | "5822432".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 13:04 |
| S44 | 2     | "5905800".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 13:08 |
| S45 | 2     | "6181802".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/31 13:08 |
| S46 | 9     | phone with (steganograph\$7 or watermark) with encod\$3     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/01 16:29 |
| S47 | 10    | ("5084891" or "5204902" or "3004104" or "3406344").pn.      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/03 14:21 |
| S48 | 148   | (steganograph\$7) and @ad<"19981013"                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 18:48 |
| S49 | 80355 | (encod\$3 with (voice or sound or data)) and @ad<"19981013" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 18:49 |

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|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S50 | 1619 | S49 and ((increas\$3 or magnify\$3) with (amplitude))                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 18:50 |
| S51 | 841  | S50 and ((add\$3 or overlay\$3 or hid\$3) with (signal or bit or code))      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 18:50 |
| S52 | 94   | S51 and (phone)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 18:51 |
| S53 | 51   | S51 and (encod\$3 with (dependent) with (data or sample or signal))          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 18:51 |
| S54 | 51   | S51 and (encod\$3 with (dependent) with (data or sample or signal or voice)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:05 |
| S55 | 1082 | ((cell or mobile) with phone) and (increas\$3 with amplitude)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:22 |
| S56 | 90   | S55 and @ad<"19981013"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:17 |
| S57 | 0    | S56 and ("100" with (percent or "%"))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:07 |

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|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S58 | 4266 | (doubl\$3 with amplitude) and @ad<"19981013"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:20 |
| S59 | 0    | S58 and ((encod\$3) with ((cell\$3 or mobile) with phone))                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:18 |
| S60 | 25   | S58 and ((cell\$3 or mobile) with phone)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:18 |
| S61 | 4    | S58 and ((authenticat\$3 or validat\$3) with (user or equipment or phone))                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:23 |
| S62 | 574  | ((cell\$3 or mobile) with phone) with (receiv\$3) with (data or signal)) and @ad<"19981013" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:23 |
| S63 | 46   | S62 and ((authenticat\$3 or validat\$3) with (user or equipment or phone))                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/12 19:23 |
| S64 | 2    | "4703476".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:03 |
| S65 | 2    | "5025443".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:04 |



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|     |   |               |   |    |    |                  |
|-----|---|---------------|---|----|----|------------------|
| S66 | 2 | "5134719".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:07 |
| S67 | 2 | "5185762".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:10 |
| S68 | 2 | "5355161".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:12 |
| S69 | 2 | "5410541".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:14 |
| S70 | 2 | "5467169".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:15 |
| S71 | 2 | "5574962".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:16 |
| S72 | 2 | "5584070".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:17 |
| S73 | 2 | "5719937".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:18 |

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|     |   |               |   |    |    |                  |
|-----|---|---------------|---|----|----|------------------|
| S74 | 2 | "5764770".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:18 |
| S75 | 2 | "5826227".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:22 |
| S76 | 2 | "5932863".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:22 |
| S77 | 2 | "5937000".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:25 |
| S78 | 2 | "5978773".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:26 |
| S79 | 2 | "6154484".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:27 |
| S80 | 2 | "6687345".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:30 |
| S81 | 2 | "4943973".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:32 |

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|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S82 | 2      | "6389055".pn.                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:34 |
| S83 | 2      | "5539806".pn.                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:35 |
| S84 | 2      | "4963998".pn.                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:36 |
| S85 | 2      | "5079648".pn.                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:38 |
| S86 | 2      | wo-9636163-\$.did.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:38 |
| S87 | 447979 | (data or voice) with (dynamic or chang\$2) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:40 |
| S88 | 3153   | S87 and (encod\$3 with dynamic)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:40 |
| S89 | 983    | S88 and @ad<"19981013"                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:40 |

## EAST Search History

|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S90 | 238780 | 713/150,168-171,176-181.ccls. or 380/247-250,255,270,38.ccls. or 726/1-7.ccls. or "379"/\$.ccls. or "455"/\$.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:43 |
| S91 | 28     | S89 and S90  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:49 |
| S92 | 2      | (voice near dynamic near encod\$3) and @ad<"19981013"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 14:50 |
| S93 | 94     | (cell\$4 adj1 \$4phone) and (normaliz\$3 with voice)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 15:29 |
| S94 | 16     | S93 and @ad<"19981013"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 15:27 |
| S95 | 34     | (cell\$4 adj1 \$4phone) and (scal\$3 with voice) and @ad<"19981013"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/01 15:29 |